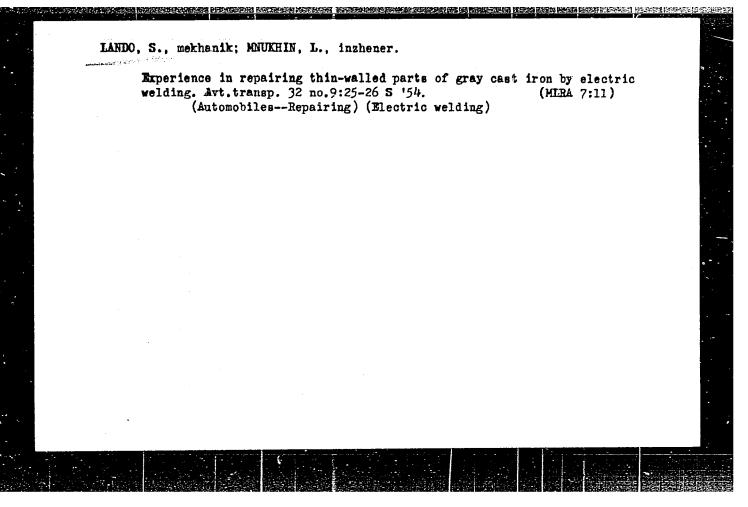
Multiple hemorrhagic telangisctasis (Osler's disease) and its occurrence in the oral cavity. Stomatologia 38 no.3:6-8 (MFRA 12:8)

1. Iz kafedry propedevtiki khirurgicheskoy stomatologi (zav. - dotsent G.A.Vasil'yev) Moskovskogo meditsinskogo stomatologi-cheskogo instituta (dir. - dotsent G.N.Beletskiy) i Moskovskogo chelyustno-litsevogo gospitalya (glavnyy vrach - dotsent A.A. Kovner).

(HRYTHEMIA) (MOUTH--DISEASES)



LANDO, Semen Yakovlevich; SHNEYDERMAN, M.A., red.; BODANOVA, A.P., tekhn. red.

[Repairing a cylinder block by electric welding and epoxy resin]
Remont bloka tsilindrov elektrosvarkoi i epoksidnym kleem. Moskva, Avtotranslzdat, 1962. 31 p. (MIRA 15:6)
(Cylinders-Maintenance and repair)

LANDO, Semen Yakovlevich; GUROV, S., red.; KUZNETSOVA, A., tekhn. red.

[Welding of body elements]Svarka korpusnykh detalei. Moskva,
Mosk. rebochii, 1962. 51 p.
(Automobiles—Bodies)
(Welding—Equipment and supplies)

(Welding—Equipment and supplies)

16(1) 16,4500

67090 SOV/44-59-1-475

Translation from : Referativnyy zhurnal.Matematika, 1959, Nr 1,p 96 (USSR)

Lando, Yu.K.

Cauchy Function of a Linear Integro-Differential Equation of TITLE: Volterra Type

PERIODICAL: Uch.zap.Minsk.gos.ped. in-ta, 1956, vyp 5, 41 - 47

ABSTRACT: The author constructs the analogue of the Cauchy function for the linear integro-differential equation

$$M(u) = L(u) - \lambda \sum_{i=0}^{n-1} \sum_{a}^{x} K_{i}(x,y)u^{(i)}(y)dy = 0$$
here

where

$$L(u) = \sum_{i=0}^{n} p_{i}(x)u^{(i)}(x)$$

With the aid of this function the author finds an explicit expression for the partial solution of the inhomogeneous equation M(a) = f(x).

Card 1/2

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928520003-2"

16(1)
Cauchy Function of a Linear Integro-Differential Equation of Volterra Type

Remark of the reviewer: On the Third All-Union Congress of Mathematics (Referativnyy zhurnal.Matematika,1957,1500) the reviewer reported on the same method which consists in the transition from a system of integro-differential equations to the corresponding inhomogeneous system, and on the application of this method for the investigation of the stability of solutions of non-linear integro-differential equations. For more details see chapters I and IV of the monograph of the reviewer "On Some Problems of the Theory of Integro-Differential Equations".

Ya.V. Bykov

Card 2/2

s/044/60/000/004/004/006

C111/C333

Lando, Yu. K.

TITLE:

On the Green function of the boundary value problem for

a Volterra integro-differential equation

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 4, 1960, 77,

abstract 4145. (Uch. zap. Minsk. gos. ped. in-ta, 1958,

vyp 9, 65-70)

TEXT:

The construction of the Green function of the boundary

value problem

$$u^{(n)}(x) + \sum_{k=0}^{n-1} \left[P_k(x) u^{(k)}(x) - \int_0^x A_k(x,y,\lambda) u^{(k)}(y) dy \right] = f(x)$$
 (1)

$$R_{i}(u) = \sum_{k=0}^{n-1} \left[\alpha_{ik}^{(k)}(0) + \beta_{ik}^{(k)}(1) \right] = 0$$
(i = 1,..., n)

Card 1/2

CIA-RDP86-00513R000928520003-2" APPROVED FOR RELEASE: 06/20/2000

16(1)

AUTHOR: Lando, Yu.K. SOV/140-59-2-11/30

12

TITLE:

Development of Functions in Terms of Eigenfunctions of Boundary Value Problems for Integro-Differential Equations of the Type of Volterra (Razlozheniye funktsiy po sobstvennym funktsiyam krayevykh zadach dly wingm-iifferentsialnykh uravneniy tipa Vol'terra)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 2, pp 118-127 (USSR)

ABSTRACT:

The first part of the paper is already published TRef 1 T. In the second part the author considers the boundary value problem

$$u^{(n)}(x) + \sum_{i=0}^{n-2} a_{i}(x)u^{(i)}(x) + \sum_{i=0}^{n-1} \int_{0}^{x} A_{i}(x,t,\sqrt[n+1]{\lambda})u^{(i)}(t)dt + \lambda \int_{0}^{x} u(t)dt = 0$$

 $R_{5}(u) = 0$

 $i = 1, 2, \dots, n \quad ,$

where the A_i are analytic bounded functions of $g = \sqrt{\lambda}$ in

 $0 \le \arg q < \frac{2\pi c}{n+1}$, while the boundary conditions are regular.

Card 1/2

Theorem: If the n first derivatives of f(x) are continuous, if

Development of Functions in Terms of Eigenfunctions of Boundary Value Proclems for Integro-Differential sov/140-59-2-11/30 Equations of the Type of Volterra

f(x) satisfies the regular boundary conditions and if all eigenvalues of the boundary value problem are simple, then f(x) can be developed into a uniformly convergent series in terms of be developed ...
eigenfunctions: $f(x) = \sum_{k=1}^{\infty} a_k u_k(x)$

 $a_k = \int_{1}^{1} f(t) \overline{z_k(t)} dt$,

where $u_k(x)$ and $z_k(x)$ are the eigenfunctions of the problem and the conjugate problem corresponding to the eigenvalues h There are 3 Soviet references.

ASSOCIATION: Minskiy pedagogicheskiy institut imeni A.M. Gorikogo (Mins). Pedagogical Institute imeni A.M.Gor'kiy) SUBMITTED:

March 27, 1958

Card 2/2

LANDO, Yu.K.

Boundary problem for Fredholm's linear integrodifferential equations of the second kind. Vestsi AN BSSR. Ser. Fiz.-tekh. nav. no. 4:11-21 '60. (MIRA 14:1)

(Integral equations)

26457 S/140/61/000/003/003/009 C111/C333

TITLE: The boundary value problem for linear integro-differential

equations of Volterra type in the case of decomposing

boundary conditions

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika,

no. 3, 1961, 56-65

TEXT: In \S ! the author investigates the expansion in terms of eigenfunctions of the boundary value problem for the equation

 $u^{(n)}(x) + \sum_{i=0}^{n-2} a_{i}(x)u^{(i)}(x) + \sum_{i=0}^{n-1} \int_{0}^{x} A_{i}(x,t,y)u^{(i)}(t)dt + \lambda \int_{0}^{x} u(t)dt = f(x), \qquad (1)$

Card 1/40

s/140/61/000/003/003/009 c111/c333 26457

The boundary value problem for ...

where $\lambda = s^{n+1}$, with the decomposing boundary conditions

$$R_{j}(u) = \sum_{k=0}^{n-1} \alpha_{jk} u_{0}^{(k)} = 0, \qquad j = 1, 2, \dots, m;$$

$$R_{j}(u) = \sum_{k=0}^{n-1} \beta_{jk} u_{1}^{(k)} = 0, \quad j = m+1, m+2, \dots, n.$$
(2)

$$R_{j}(u) = \sum_{k=0}^{n-1} \beta_{jk} u_{1}^{(k)} = 0, \quad j = m+1, m+2, ..., n.$$

Here
$$u_0^{(k)} = \frac{d^k u}{dx^k} \Big|_{x=0}$$
; $u_1^{(k)} = \frac{d^k u}{dx^k} \Big|_{x=1}$; $0 \le m < n$,

and it is assumed that the Green function of the problem possesses simple poles only.

In § 2 the author considers more complicated boundary conditions, Card 2/10

s/140/61/000/003/003/009 c111/c333

The boundary value problem for ...

where the Green function may also have multiple poles.

The investigation is based on former results of M. V. Keldysh (Ref. 2: O sobstvennykh znacheniyakh i sobstvennykh funktsiyakh nekotorykh klassov nesamosopryazhennykh uravneniy on eigen values and eigenfunctions of some classes of non-selfconjugate equations, DAN SSSR, t. 77, No. 1, 11-14, 1951).

Theorem of M. V. Keldysh: Let H be a complete self-adjoint operator (a certain power of H is assumed to possess the absolute norm), A an arbitrary completely continuous operator; B_1 , B_2 , B_{m-1} bounded operators in the Hilbert space. Then the system of the eigen and adjoint functions of the equation

$$v = Lv, \tag{3}$$

 $L = A + \lambda HB_1 + \lambda^2 HB_2 + \dots + \lambda^{m-1} H B_{m-1} + \lambda^m H$, as well as of the conjugate equation is m-fold complete. Card 3/40

26457 \$/140/61/000/003/003/009 C111/C333

The boundary value problem for ... C111/C333

The system v_1^i , v_2^i , ..., v_{q-1}^i is called adjoint to the eigenfunction v^i of (3) if $v^i = L_{i,j}(v^i)$, (4)

$$v_{k}^{i} = L_{\lambda_{i}}(v_{k}^{i}) + \frac{1}{1!} \frac{\partial L_{\lambda_{i}}(v_{k-1}^{i})}{\partial \lambda} + \dots + \frac{1}{k!} \frac{\partial^{k}L_{\lambda_{i}}(v^{i})}{\partial \lambda^{k}},$$
(4)

where λ_i is the eigenvalue to which v^i corresponds. The number of all eigen and adjoint functions which correspond to λ_i is denoted as multiplicity m_i of the eigenvalue λ_i . For every system of eigen and adjoint functions v^i , v^i_1, \ldots, v^i_{q-1} , m chains of functions

$$v_{i}^{(v_{0})}, v_{i}^{(v_{1},1)}, ..., v_{i}^{(v_{1},q-1)}, v_{0}=0,1,2,..., m-1$$
 (5)

Card 4/10

26457 \$/140/61/000/003/003/009 C111/C333

The boundary value problem for can be formed, where

$$v_{1}^{(\mathbf{v},k)} = \left[\frac{d^{\mathbf{v}}}{dt^{\mathbf{v}}} e^{\lambda_{1}t} \left\{ v_{k}^{1}(x) + v_{k-1}^{1}(x) \frac{t}{1!} + \dots + v^{1}(x) \frac{t^{k}}{k!} \right\} \right]_{t=0}.$$
 (6)

The system of functions (5) is called m-fold complete if to an arbitrary system of m elements f_1, f_2, \ldots, f_m of the Hilbert space the coefficients $a_k^{(i)}$ can be chosen independently of γ so that it holds

$$f_{v} = \sum_{i=1}^{\infty} \sum_{k=0}^{m_{i}-1} a_{k}^{(i)} v_{i}^{(v-1,k)}, \quad v = 1,2,...,m.$$

The operator H is called complete if the system of the eigenfunctions of $v = \lambda$ Hv, $\lambda \neq \infty$, is complete.

§ 1. Instead of (1) the author considers Card 5/40

$$u^{(n)}(x) + \sum_{i=0}^{n-2} a_i(x) u^{(i)}(x) + \sum_{i=0}^{n-1} \int_{0}^{x} A_i(1) u^{(i)}(t)dt + \frac{3^{n+1}}{n} \int_{0}^{x} u(t)dt = 0, \qquad (1^a)$$

where the derivatives $a_{1}(x)$ and the functions $A_{1}(x)$ are assumed to be continuous on [0,1].

Let h and l be the weights of the matrices

$$A = \begin{bmatrix} \alpha_{1,0} & \cdots & \alpha_{1,n-1} \\ \cdots & \alpha_{m,n} & \cdots & \alpha_{m,n-1} \end{bmatrix}$$

$$B = \begin{bmatrix} \beta_{m+1,0} & \cdots & \beta_{m+1,n-1} \\ \beta_{n,0} & \cdots & \beta_{n,n-1} \end{bmatrix}$$
Card 6/10

CIA-RDP86-00513R000928520003-2" **APPROVED FOR RELEASE: 06/20/2000**

26457 \$/140/61/000/003/003/009 0111/0333

The boundary value problem for ...

where of and β are taken from the boundary conditions (2).

Theorem: The boundary value problem ($!^a$), (2) has an infinite number of eigenvalues λ_p for which there hold the following asymptotic formulas:

$$\lambda_{p} = S_{p}^{n+1} \tag{a}$$

where

$$S_{p} = \sqrt{\frac{p + \frac{1}{2} - \frac{h+1+n}{n+1}}{\sin \frac{2q \pi}{n+1}}} + O(\frac{1}{p})$$
 (b)

for n + 1 - m = 2q, - 37/n + 1 arg 9 < 37n + 1 and

$$S_{p} = \pi \frac{p + \frac{1}{2} - \frac{h+1+n}{n+1}}{\sin \frac{(2q+1)\pi}{x+1}} + o(\frac{1}{p})$$
 (c)

Card 7/40

26457 S/140/61/000/003/003/009

The boundary value problem for

for n - m = 2q and $-2N/n+1 \leq arg 9 \leq 0$.

Theorem: If f(x) possesses continuous derivatives up to the n-th order inclusively, if it satisfies (2), if all eigenvalues of the boundary value problem (1), (2) are simple, then f(x) is expandable into a uniformly convergent series in terms of the eigenfunctions of this boundary value problem.

For the proof the author obtains estimations of the Green function of (1) - (2) from which it follows that the formulas (a), (b), (c) hold for the eigenvalues of (!) - (2).

§ 2. The author considers the boundary value problem

$$A_{\lambda} u = u^{(n)}(x) + \sum_{i=0}^{n-1} a_{i}(x) u^{(i)}(x) + \sum_{i=0}^{n-1} \int_{0}^{x} A_{i}(x,t)u^{(i)}(t)dt - A^{m} \int_{0}^{x} u(t)dt = 0$$
(12)

26457 \$/140/61/000/003/003/009 0111/0333

The boundary value problem for ...

$$R_{i}(u) = 0, i = 1, 2_{y = u = 0} n$$
 (13)

By the transformation $\int_{0}^{x} u(t)dt = z(x)$ one obtains

$$R_{i} \left[\frac{dz}{dx} \right] = 0; z(0) = 0$$
 (14)

instead of (13).

A self-adjoint differential operator

$$M(z) = g^{(n+1)}(x) + \sum_{i=0}^{n-1} b_i(x) z^{(i+1)}(x)$$
 (15)

is assumed to exist for (14). Then it holds the following.

Card 9/10

26157 \$/140/61/000/003/003/009 0111/0333

The boundary value problem for

Theorem: The system of all eigen and adjoint functions of the boundary value problem (12), (13) is m-fold complete if a self-adjoint differential operator exists for the boundary conditions (14).

M. A. Naymark is mentioned. There are 3 Soviet-bloc references.

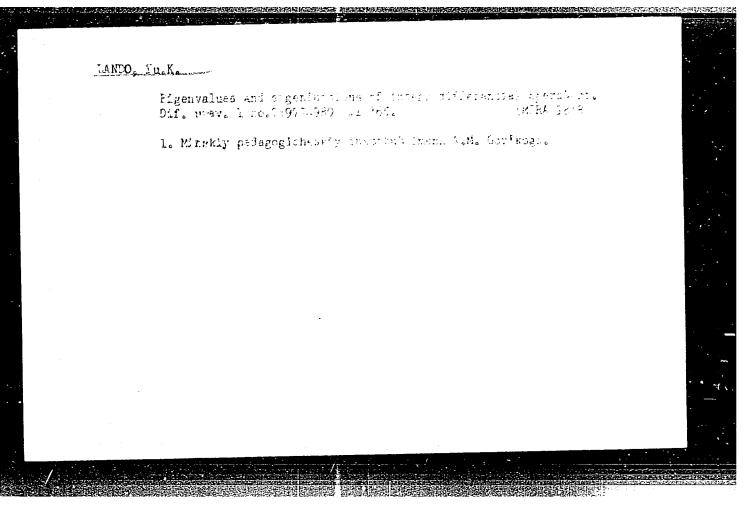
ASSOCIATION: Minskiy pedagogicheskiy institut imeni A. M. Gor'kogo

(Minsk Pedagogical Institute imeni A. M. Gor'kiy)

SUBMITTED: February 20, 1959

Card 10/10

S/201/63/000/001/003/007 D234/D308 Lando, Yu.K. AUTHOR: Construction of an integro-differential equation from its fundamental system of solutions TITIE: Akademiya navuk Byelaruskay SSR. Vyestsi, Syeryya fizika-tekhnichnykh navuk, no. 1, 1963, 24-32 PERIODICAL: The author considers the equation TEXT: Au = [L + (B + C)]u = f(1) $l_{u} = u^{(n)}(x) + p_{1}(x)u^{(n-1)}(x) + ... + p_{n}(x)u(x)$ (2) where 1 Bu (k(x,y)u(y)dy and Card 1/2



LANDODHB,

USSR/. General Problems of Pathology. Tumors

U-4

Abs Jour

: Ref Zhur - Biol., No 5, 1958, 23041

Author

Burshteyn, Sh.A., Varshavskiy, B.M., Ilyevich, A.I.,

Landodub, Yu.Ye,

Inst Title : The Effects of Radioactive Phosphorus on the Hematopoie-

tic System in Leukemias and Polycythemia Vera.

Orig Pub

: V sb.: Vopr. luchevoy terapii, Kiyev, Gosmedizdat, USSR

1956, 86-92

Abstract

: The treatment of patients with chronic myeloid leukemia (CML) (22) and chronic lymphatic leukemia (CLL) (18) with \mathbb{R}^{32} leads to clinical and hemotologic remission of 6-32 months' duration. In cases of CML the therapy was followed by a return of the peripheral leucocyte count to normal, and a terdency toward normalization of the differential was noted; there was a significant

decrease in the number of nucleated cells in the bone

Card 1/2

CIA-RDP86-00513R000928520003-2" **APPROVED FOR RELEASE: 06/20/2000**

USSR/ General Problems of Pathology. Tumors

U-4

Abs Jour

: Ref Zhur - Biol:, No 5, 1958, 23041

marrow aspirate and a return of the ratio of various granulocytic groups in the myelogram to normal. There were also similar, but less pronounced, changes in patients with CLL. P32 was most effective in treatment of the patients with true polycythemia (6) in whom hemoglobin and erythrocyte count returned to normal and the genral condition improved during the next few months following the end of therapy. The remission caused by P32 lasted for approximately 18 months.

Card 2/2

SAAKYAN, A. G.; LANDOGA, V. I.; KAZANCHEV, M. I.

Electrophoretic studies on blood protein fractions in Bechterev's disease. Terap. 34 no.1:56-61 '62. (MIRA 15:7)

1. Iz Pyatigorskoy kliniki (glavnyy vrach V. M. Dukhovskoy) Gosudarstvennogo nauchno-issledovatel skogo bal neologicheskogo instituta na Kavkazskikh mineral nykh vodakh (dir. - kandidat meditsinskikh nauk Ye. A. Kamenskiy)

(SPINE_DISEASES) (ELECTROPHORESIS)

LANDOR, YE. B.

USSR/Chemistry - Magnesium Halide Chemistry - Detones

THE PROPERTY OF THE PROPERTY O

Dec 48

"Structure and Reaction Capacity of the Magnesium Halide Enclates of Ketones," Acad A. N. Nesmeyanov, V. A. Sazonova, Ye. B. Landor, Moscow State imeni N. V. Lomonovov, 4 pp

"Dok Ar Nauk SSSR" Vol LXIII, No 4

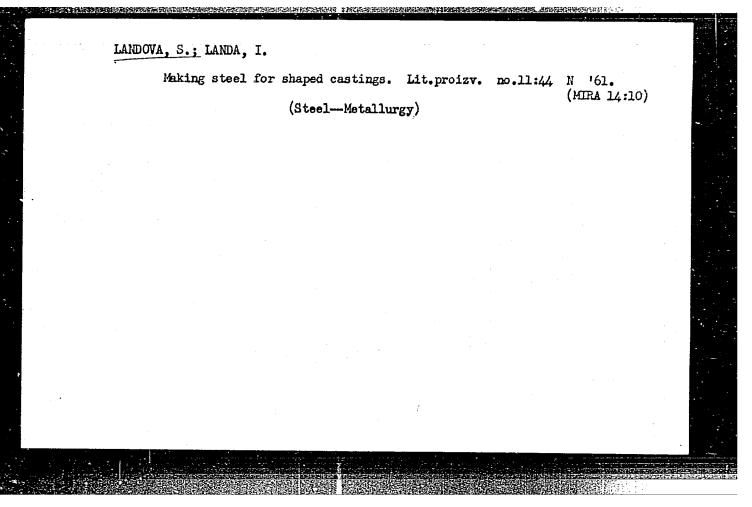
Comprehensive study of bromomagnesium derivatives of beta, beta-diphenylpropiomesitylene. Gives chemical properties of two bromomagnesium enclates of beta, beta-diphenylpropiomesitylene and their reactions with benzoyl chloride. Submitted 6 Oct 48.

PA 45/49T12

LANDOVA, M.; LANDA, S.

250 years of engineering education in Prague from the point of view of fuels technology. p. 149. (Paliva, Vol. 37, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.



LANDOVA-STYCHOVA, L.

"Our jubilees and their historical importance." p. 4. (Rise Hvezd. Vol. 34, no. 1, Feb. 1953. Praha.)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Cong., Feb. 1954, Uncl.

LANDOVA-STYCHOVA, L.

"Our objectives." p. 3. (Rise Hvezd. Vol. 34, no. 1, Feb. 1953. Praha.)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928520003-2"

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Cong., Feb. 1954, Uncl.

LANDOVA-STYDHOVA, L.

"Our second worker-President of the Czechoslovak Republic, Comrade Antonin Zapotocky". p. 73; "What is new in astronomy and in related sciences." p. 76. (Rise Hvezd. Vol. 34, no. 4, Ap. Apr. 1953. Fraha)

SO: Monthly List of East Furopean Accessions, Vol. 3, no. 2, Library of Cong., Feb. 1954, Uncl.

LANDOVA-STYCHOVA, L.

"Meditations on May Day 1953; dedicated to the young generation of the Czechoslovak Astronomical Society." p. 99. (Rise Hyezd. Vol. 34, no. 5, June 1953. Praha.)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Cong., Feb. 1954,

"Twenty-five years of the National Popular Observatory in Prague; celebrations of the jubiler of Nicolaus Copernicus! work." p. 123; "Commemorative meeting in tribute to Copernicus in Prague." p. 127. (Rise Hvezd. Vol. 34, no. 6, July 1953. Praha.)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Cong. Feb. 1954. Uncl.

LANDOVA-STYCHOVA, L.

"Polish celebrations in honor of Nicolaus Copernicus." (p.149). RISE HVEZD.
(Ceskoslovenska spolecnost astronomicka) Praha. Vol. 34, No. 7, Sept. 1953.

SO: East European Accessions List, Vol. 3, No. 8, Aug 1954.

LANDOVA-STYCHOVA, L.

"Popularized Astronomy; People's Observatories and Elections to People's Committees." p. 27, Praha, Vol. 35, no. 2, Feb. 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

F. LANDOVSKY

"Forcing vegetables." p. 41. (VYZIVA LIDU, Vol. 8, no. 3, Mar. 1953, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.

LANDOVSKY, Frantisek, doc. dr. inz.

Modern working method in the research on gardening.

Rost vyroba 11 no.1:1-2 Ja '65.

1. Chair of Gardening of the Higher School of Agriculture, Prague 6, Technicka 3.

, 第一天,我们就是我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是一个人,不

5/023/62/000/002/002/002 D234/D308

STREET, STREET,

AUTHORS:

Kull', I., Candidate of Physical and Mathematical

Sciences, and Landra, E.

TITLE:

Method of solving the generalized transport problem

PERIODICAL:

Akademiya nauk Estonskoy SSR. Izvestiya. Seriya fiziko-

matematicheskikh i tekhnicheskikh nauk, no. 2, 1962,

120 - 127

TEXT: The authors offer a method superior to that given in the papers of V.V. Shkurba, and M.K. Gavurin, G.Sh. Rubinshteyn and S.S. Surin at the 4th All-Union Mathematical Congress in 1961. The problem is formulated in terms of distribution of different kinds of fuels among different power stations, and solved by generalizing A. L. Lur'ye's method (V. sb. "Primeneniye matematiki v ekonomicheskikh issledovaniyakn" (Application of Mathematics in Economic Investigations), Moscow 1959, 354-389). The method is stated to be especially suitable for finding nearly optimal distributions. A numerical example is given. There are 6 tables.

Card 1/2

Method of solving the generalized ...

S/023/62/000/002/002/002 D234/D308

ASSOCIATION: Tartuskiy gosudarstvennyy universitet (Tartu State University) Institut energetiki AN Estonskoy SSR (Institute of Power Engineering, AS EstSSR)

SUBMITTED:

September 18, 1961

Card 2/2

KULL', I. [Kull, I.], kand.fiz.-matem.nauk; LANDRA, E.

Method for solving a generalized transportation problem. Eesti tead akad tehn fuus 11 no.2:120-127 '62.

1. Tartu State University and Academy of Sciences of the Estonian S.S.R., Institute of Energetics.

LANDRA, E.

Effect of the composition of Kukersite oil shale on heat losses accounted for by the combustion products. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. nauk 12 no.2:156-163 '63. (MIRA 16:10)

1. Academy of Sciences of the Estonian S.S.R., Institute of Energetics.

[Fuel and boiler units] Toplivo i ketel'nye ustanovki;
sbornik statei. Tallin, AN Estonskoi SSR, 1964. 161 p.
(MIRA 18:1)

1. Eesti NSV Teadusta Akadeemia. Institut ternofiziki i
elektrofiziki.

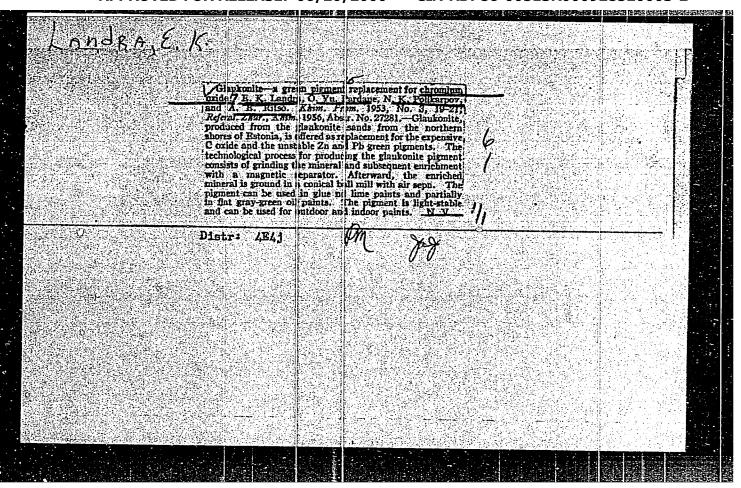
LANDRA, E.K.

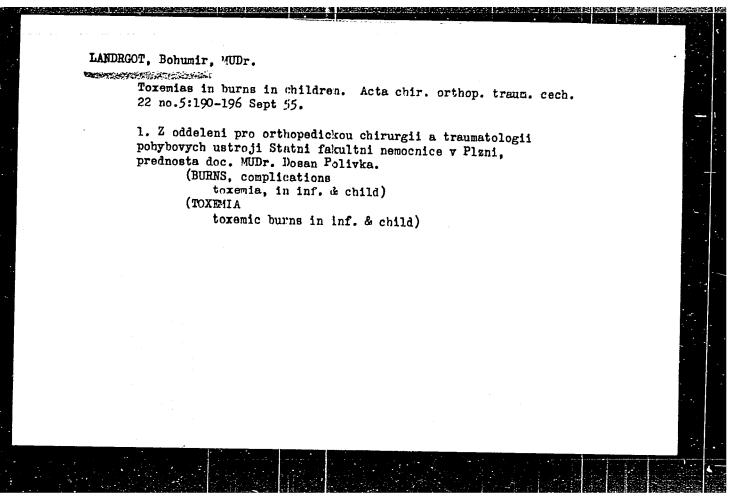
LANDRA, E.K.; FARDANE, C.YU.; RITEO, A.E.; ICLIEMECV, N.E.

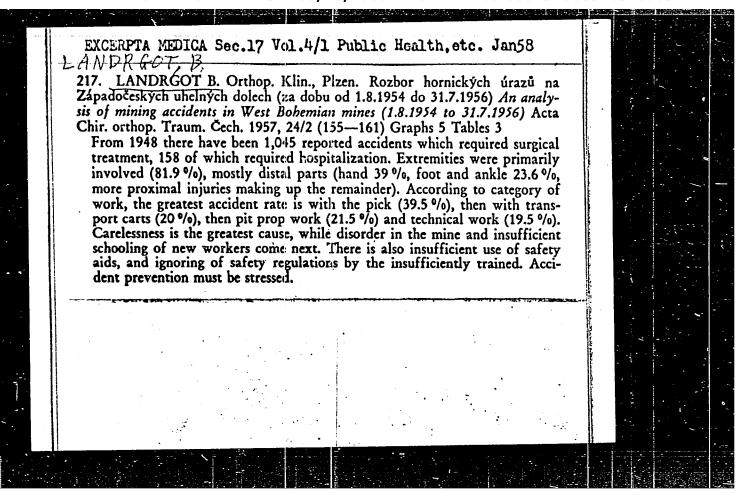
"Glauconite as a Green Figment and Its Application in Constructional Colors (Paints)," Isv. AN Est SSR, 2, No 1, 100-121, 1953

The above constitutes the results of an investigation of the glauconite sands of the deposits of Mardu and Lasnamyae (near Tallin, Estonian SSR). In the Mardu deposit the layer of glauconite sands lies at a depth of 6 meters between limestones and dictyoneme shales. The authors carry out a chemical analysis of the glauconite and of its physicomechanical Properties. (RZhGeol, No 1, 1955)

SO: Sum. No. 536, 10 Jun 55







e i svenikovetku trivatek ibrahava

LANDRGOT, B.; DRAHY, J.

Injuries of motocyclists. Acta chir.orthop.traum.cech. 27 no.5: 450-458 0 160.

l. Ortopedicka klinika Lekarske fakulty KU se sidlem v Plzni, doc. MUDr. Polivka Vysoka skola strojni a elektrotechnicka v Plzni (ACCIDENTS TRAFFIC)

VEVERKA, Miroslav; LANDRGOT, Behumir; CHARVATOVA, Rozena

Surgical treatment of Achilles thedon ruptures. Acta chir. orthop.
trauma. Cech. 28 no.6:541-545 D 161.

1. Ortopedicka klinika SFN v Pizni, prednosta doc. dr. D.Polivka. (HEEL wds & inj)

POLIVKA, Dusan; LANDRGOT, Bohumil

Scoliosis in mental disorders. Acta chir. orthop. trauma. cech. 29

no.3:249-251 Je '62.

1. Ortopedicka klinika fakultni nemocnice v Pizni, prednosta doc. dr. D. Polivka Psychiatricka lecebna v Dobranech u Plzne, reditel dr.

J. Nemecek.

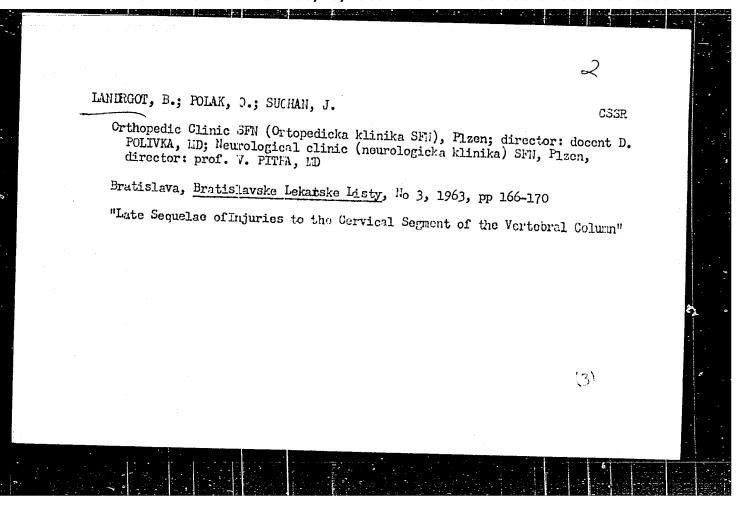
(SCCLIOSIS compl)

(MENTAL DISORDERS compl)

LANDRGOT, Bohumir; VEVERKA, Miroslav; CHARVATOVA, Bozena

Experience with primary sutures of hand tendons. Acta chir. orthop. trauma. Cech. 28 no.2:122-132 Ap '62.

1. Ortopedicka klinika SFN v Pizni, prednosta doc. dr. D. Polivka. (HAND wds & inj)



LANDRGOT, B.; HOLIK, F.

Indirect fractures of the pelvis in athletes. Acta chir. orthop. traum. cech. 30 no.3:253-258 Je 163.

1. Ortopedicka klinika lekarske fakulty KU v Plzni, prednosta doc. dr. D. Polivka Rentgenove oddeleni OUNZ v Praze 6, vedouci MUDr. F. Holik, CSc. (PELVIC BONES) (FRACTURES) (SPORT MEDICINE) (PHYSICAL EDUCATION AND TRAINING)

LANDRGOT, B.

Skin transplantation in binovular twins. Acta chir.orthop. traum. cech. 30 no.5:373-375 0.63.

1. Ortopedicka klinika lekarske fakulty KU v Plzni, prednosta doc. dr. D.Polivka.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928520003-2"

*

LANDRGOT, B.; PRIBYL, T.; KAVAN, Z.

Thromboembolic complications in orthopedics and traumatology. Acta chir. orthop.traum. cech. 30 no.5:438-443 0'63.

l. Ortopedicka klinika lekarske fakulty KU v Plzni, prednosta doc. dr. D_{\bullet} Polivka.

BURGER, F.; LANDRGOT, B.

Endochondroma of the fingers and metacarpal bones. Acta chir. orthop. traum. cech. 31 no.2:112-119 Ap 164.

1. Ortopedicka klinika lekarske fskulty KU [Karlova Universita] v Plzni (prednosta doc. dr. D.Polivka).

BURGER, F.; LANDRGOT, B.

Epidermoid bone cysts in the phalanges of the hand. Acta chir. orthop. traum. cech. 31 no.2:120-124. Ap '64.

1. Ortopedicka klinika lekarske fakulty KU [Karlova Universita] v Plzni (prednosta doc.dr.D.Polivka).

LANDRGOT, Bohumir; LEDINSKY, Quido; SUCHAN, Jaroslav.

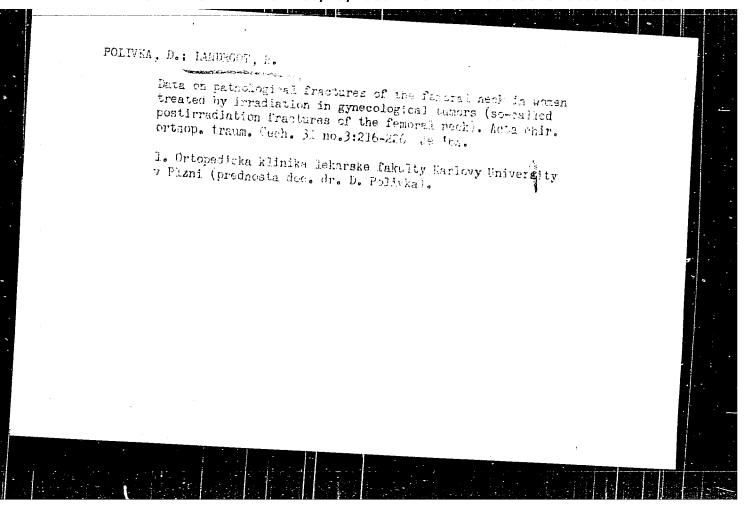
Injuries to the cervical spine caused by jumping into the water. Plzen. lek. sborn. 23:107-110 164

1. Chirurgicka klinika (prednosta: doc. MUDr. J. Spinka), a ortopedicka klinika (prednosta: doc. MUDr. D. Polivka), lekarske fakulty University Karlovy se sidlem v Plzni.

LANDRGOT, Bohumir: PRIBYL, Tomas; SAUER, Cosef

Fracture of the pelvis after radictherapy. Plzen. lek. sborn. 23:125-128 '64

l. Ortopedicka klinika (prednosta: doc. MUDr. D.Polivka) a Porodnicka a gynekologicka klinika lekarske fakulty University Karlovy se sidlem v Plzni (prednosta: prof. MUDr. V. Mikolas).



POUPA, J., LANDECOT, A.

Traumatic luxation of the hip joint. (late results). Acta. chir. orthop. traum. cech. 31 no.1s61.67 f '64.

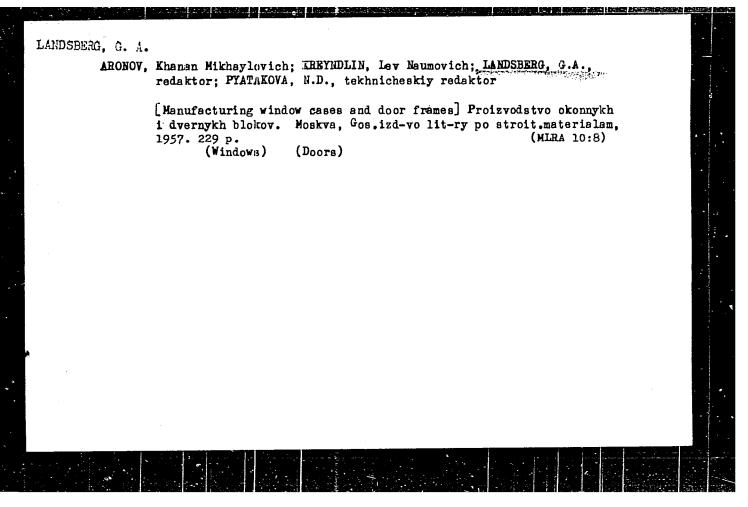
1. Orthopedicka klinika lekerske fakulty Kerlovy University v 51zni (prednesta doc. dr. D. folivka).

LAMBRECT, R.; LEDINSKY, Q.; SUCHAR, J.

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Injuries of the pervical spine. Acta ohlr. orthog. traum. pech. 31 no.5:457-462 0 464.

1. Ortopedicka klinika (prednosta doc. dr. D. Polivka), neurochirergicke oddeleni enirergicke kliniky (prednosta doc. dr. J. Spinka) lekarske fakulty Earlowy University v Flani.



LANDSBERG, L.G.

SOV-120-58-1-6/43

AUTHORS: Belonogov, A. V., Zel'dovich, A. G., Kolganov, V. Z., Landsberg, L. G., Lebedev, A. V., Nikitin, S. Ya., Smolyankin, V. T., Sokolov, A. P.

TITLE: A Photographic Setup for Large Hydrogen Bubble Chambers (Sistema fotografirovaniya dlya bol'shikh vodorodnykh puzyr'kovykh kamer)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 1, pp 38-41 (USSR)

ABSTRACT: A photographic setup for hydrogen bubble chambers of large dimensions is quite different from that for Wilson and diffusion chambers. In particular, a gas bubble in liquid hydrogen scatters light mainly in the forward direction, most of it between 0 and 10°, say (cf Fig.1) so that it is impossible to photograph the tracks at 90° to the incident light as is done in the usual chambers. For small bubble chambers the photographs may be taken with one side of the chamber and the source of light is on the other (Refs.3-5). However, it is very difficult to use this system with a large hydrogen chamber since it is desirable not to employ large glasses as it is difficult to Card 1/3 mount these on the main body of the chamber. The present

A Photographic Setup for Large Hydrogen Bubble Chambers. SOV-120-58-1-6/43 authors have therefore developed a method of illuminating and photographing on one side of the chamber only. This method was tried on the working hydrogen chamber described in Ref. 5 (this issue) and is shown in Fig. 2. The back wall of the chamber was in the form of a spherical mirror, at the centre of curvature of which the source of light was placed. The light reflected from this mirror is focussed back again at the source and does not enter the objective of the photographic camera (B in Fig.2). The light which after reflection is scattered by the bubbles does enter the photographic camera and gives rise to the track images (Fig. 3, facing p.35). The main disadvantage of this method is that in addition to the real images one gets the virtual images as well but these can be recognised by inspection or by a measurement of track co-ordinates by means of 2 stereophotographs (the virtual image lies behind the mirror). A calculation of the scattered light as a function of angle, Card 2/3

A Photographic Setup for Large Hydrogen Bubble Chambers.

the result of which is shown in Fig.1, is given in a mathematical appendix. There are 5 diagrams, no tables and 7 references, of which 4 are English and 3 Soviet.

SUBMITTED: June 3. 1957

Bubble chambers—Equipment
 Particles—Photographic analysis

Card 3/3

86735 916150 21.5300(2816,1033,1144) E032/E314 S/120/60/000/006/009/045 AUTHORS: Babayev, A.I. and Landsberg, L.G. TITLE: A Gas-filled Cherenkov Counter PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No. 6, PP. 40 - 42TEXT: The counter is illustrated schematically in Fig. 1 and is designed for a working pressure of 25 atm. The beam of particles is admitted through thin, spherical, stainlesssteel end-windows. The working substance is freon-13 (CCIF₃). The optical part of the counter consists of two cylindrical mirrors 2, one plane mirror 3 and a perspex lens 4, which focuses the light on the photocathode of the photomultiplier For gases (n - $1 \ll 1$) the usual formulae describing Cherenkov radiation assume the following form (Ref. 1). The energy threshold of the counter is given by $^{\gamma}_{\text{threshold}} \sim [2(n-1)]$, where $\gamma = 1/\sqrt{1 - \beta^2}$ is the total energy of the particles in units of the rest mass, and n is the refractive index of the gas. The maximum angle at which

S/120/60/000/006/009/045 E032/E314

A Gas-filled Cherenkov Counter

the radiation is emitted is given by:

$$\psi_{\text{max}} = \arccos (1/n) \approx \sqrt{2(n-1)}$$
.

The number of quanta (in the region of sensitivity of the photocathode) emitted per unit length of the path of the beam of particles with $\beta=1$ is given by:

dN/de = 872(n - 1).

The Lorenz-Lorentz formula for perfect gases shows that dN/de is proportional to the pressure of the gas and wax refractive index of freon-13 at a pressure of 760 mmHg and table gives the values of dN/de and wax for different card 2/6

S/120/60/000/006/009/045 E032/E314

A Gas-filled Cherenkov Counter

P, atm	n - 1	₁y _{max}	dN/de quanta/cm
1 5 10 15 20	0.000731 0.00366 0.00731 0.01095 0.01420	2°10' 4°50' 6°50' 8°20' 9°30'	0.64 3.2 6.4 9.6

These data are based on the Lorenz-Lorentz formula assuming that the gas is perfect. They are therefore only approximate. The length of the Cherenkov counter employed by the present authors was 100 cm so that it follows that at a pressure of latm the number of quanta emitted by a particle with $\beta=1$, which is passed through the counter, is 64. At this pressure the emission angle is small and the light is reflected from the plane mirror only. If it is assumed that the light collection is 50% and the average quantum yield is 5%, then the number of electrons formed at the photocathode under these Card 3/6

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S/120/60/000/006/009/045 E032/E314

A Gas-filled Cherenkov Counter

conditions is 1.5. The light from the photomultiplier is fed to a wideband amplifier and then to a fast coincidence circuit (resolving time 3 x 10^{-0} sec). The efficiency of the counter at a pressure of 1 atm is about 0.8. As the pressure is increased the amount of light increases but the light collection deteriorates, since with increasing angle of emission the number of reflections at the cylindrical mirrors also increases. It is clear from these approximate calculations that the efficiency of the counter may be made to approach 100%. The Cherenkov counter designed on the basis of these calculations was tested on the 270 MeV synchrotron of FIAN (Physics Institute of the AS USSR). The experiment is illustrated schematically in Fig. 2. A beam of γ -rays produced electrons with an arbitrary momentum at the copper converter P. The electrons then traversed a lead collimator and were analysed by the magnetic analyser N . As a result, a beam of electrons was aparated out with a momentum of about

Card 4/6

86735 S/120/60/000/006/009/045 EC32/E314

A Gas-filled Cherenkov Counter 200 MeV/c. The Cherenkov counter C was placed between two scintillation counters \mathbf{S}_1 and \mathbf{S}_2 . These counters were so arranged that every particle passing through them also passed through the Cherenkov counter. The counter S2 was followed by two further counters, S_3 and S_4 . The efficiency of the Cherenkov counter was determined as the ratio of the quadruple (i.e. the efficiency of the coincidences $S_1^{CS_3S_4/S_1S_2S_3S_4}$ scintillation counter S2 was assumed as being 100%. shows the efficiency of the gas Cherenkov counter as a function of pressure. The efficiency was found to be 100% between about 3 and 15 atm. Acknowledgments are expressed to S. Ya. Nikitin for interest and advice, Yu.M. Zaytsev, V.S. Tikhonov, Yu.V. Fadeyev for assistance and P.A. Cherenkov, A.N. Gorbunov, V.F. Grushin and Ye.M. Leykin for their collaboration during the actual tests on the synchrotron.

Card 5/6

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E032/E314

A Gas-filled Cherenkov Counter

There 3 figures, 1 table and 2 references: 1 Italian and 1 Soviet.

SUBMITTED: October 20, 1959

S/056/60/038/006/020/049/XX B006/B070

24.6300

AUTHORS: Balats, M. Ya., Lebedev, P. I.,

Kondrat'yev, L. N., Landsberg, L. G. Obukhov, Yu. V., Pontekorvo, B.

TITLE:

Non-radiative Transitions in Heavy μ -mesic Atoms $|^{a}$

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki,

1960, Vol. 38, No. 6, pp. 1715 + 1719

TEXT: This paper is concerned with studies of the spectra of X-ray photons emitted by mesic atoms of uranium and lead. Since so far only two 2P → 1S transition mechanisms in mesic atoms have been studied (emission of meso-X-ray photons, and Auger effect) this work is a supplement as well as a contribution to the data on the properties of heavy nuclei. The experimental arrangement is described in the introduction and schematically shown in Fig. 1. A π beam (270 Mev/c) from the synchrocyclotron of CIYaI (Joint Institute of Nuclear Research) was used. The targets had a thickness of 10.7 g/cm² for uranium and of 10.3 g/cm² for lead. A scintillation counter with a photomultiplier

Card 1/5

Non-radiative Transitions in Heavy μ -mesic Atoms

S/056/60/038/006/020/049/XX B006/B070

of the type ϕ 37-33 (FEU-33) served as the gamma quantum detector. The counter pulses were conveyed to a 64-channel pulse-height analyzer. The background of the accidental coincidences amounted to about 5% of the counting rate, A Na^{24} source (E,= 1.38 and 2.76 Mev) was used for calibration and checking the linearity. The results of measurement for the range $3\sim 8$ Mev are shown in Fig. 3. Curve I gives the upper limit of the background, II the lower limit for the background of Pb and III the lower limit for the background of U (n - number of counts per analyzer channel). The spectra are normalized for one and the same μ-mesons stopped in the target. The Pb curve has a clear peak at ~5.3 Mev. On account of the smallness of the NaI (TI) crystal, this peak can be due to three photon energies: 1) E, ; 2) E, -0.5; Mev; 3) E_{χ} -1.02 Mev, where E_{χ} = 6.02 MeV is the energy of the 2P-1.5 transition photons in medic lead. In the region of the peak (5 · 5 5 Mev), less counts were obtained from uranium than from lead. The mean energy of the peak corresponding to the transition 2P-- S is about 200 kev larger from uranium than from lead. The photon intensity difference at 6 Mev in mesic uranium and mesic lead indicates that a non-radiative

Card 2/5

Non-radiative Transitions in Heavy μ -mesic Atoms

S/056/60/038/006/020/049/XX B006/B070

transition of μ mesons to the 1S level of mesic uranium takes place here. Such a non-radiative transition in which the transition energy is directly transferred to the nucleus, had not yet been observed. A rough estimate of the ratio of the non-radiative transition probability in lead to the probability of emission of a photon gives the value $(W_b/W_8)_{\pi 258}$. Preliminary experiments have further shown

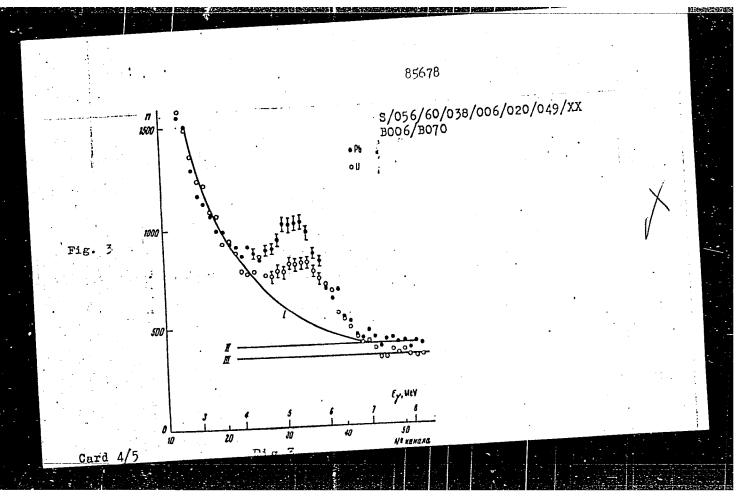
that non-radiative transitions take place also in Th²³².

A. I. Alikhanov is thanked for his interest, and D. F. Zaretskiy for making some results available before publication. G. Ye. Belovitskiy is mentioned. The preliminary results of these investigations were communicated by A. I. Alikhanov to the Nineth All-Union Conference on Physics of High-energy Particles held in Kiyev in 1959. There are 3 figures and 6 references: 2 Soviet, 3 US, and 1 Dutch.

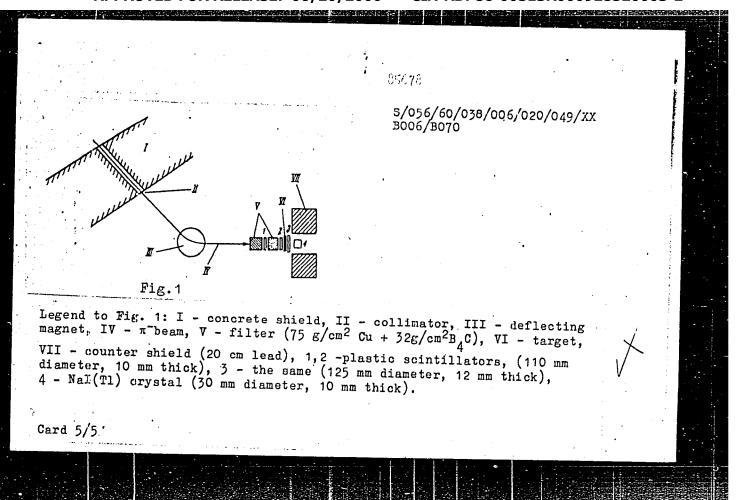
SUBMITTED: January 19, 1960

Card 3/5

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APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928520003-2"



24.6900 AUTHORS:

S/056/60/039/004/047/048 B006/B056

Balats, M. Ya., Kondrat'yev, L. N., Landsberg, L. G., Lebedev, P. I., Obukhov, B. V., Pontekorvo, B.

TITLE:

The Intensity of Radiationless Transitions in μ -Mesic Atoms /9

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 4(10), pp. 1168 - 1170

TEXT: In an earlier paper (Ref. 1) the authors found that the intensity of mesic X-rays 2P-1S in U^{238} normalized to one stopped muon is considerably less than in Pb. This fact indicates the existence of radiation-less transitions in heavy mesic atoms, in which the energy of the 2P-1S that the probability of radiationless transition (W_{r1}) in mesic lead is negligibly small in comparison to the probability (W_{hV}) of a transition with emission of one photon (W_{hV}) W_{hV}) of a transition (W_{r1}) W_{r1} $W_{r238} > 0.1$. Now, the authors investigated the 2P-1S transition intensities in the Card 1/3

The Intensity of Radiationless Transitions in S/056/60/039/004/047/048 B006/B056 µ-Mesic Atoms

mesic atoms of Pb, Bi, Th, ${\tt U}^2$ 35, and ${\tt U}^2$ 38, and give a report on this investigation. With the help of a scintillation spectrometer, the X-ray spectra in the energy ranges corresponding to the transitions were measured. Special attention was paid to determining the background level. Figs. 1 and 2 show examples of the spectra recorded. Fig. 1 shows the spectra of mesic X-ray photons from targets of Pb(4.46 g/cm²),

Bi(4.46 g/cm²), and $U^{238}(4.60 \text{ g/cm}^2)$; as abscissa, the pulse height in volts, and as ordinate, the number of pulses in an interval of 5v is taken. Fig. 2 shows the same for Pb(5.56 g/cm^2) and $U^{235}(5.59 g/cm^2)$. The intensities of mesic X-radiation (2P - 1S) normalized to one stopped μ -meson (in relative units) are given in a table: Fraction of radiation-

Intensities

		less 2P - 1S transitions
Pb	1	•••
Bi	1 <u>+</u> 0.06	0 <u>+</u> 0.06
Th	0.85 🛨 0.07	0.15 ± 0.07
Th U ² 35 U ² 38	0.71 <u>+</u> 0.05	0.29 <u>+</u> 0.05
U ²³⁸	0.77 ± 0.04	0.23 ± 0.04

Card 2/3

APPROVED FOR RELEASE: 06/20/2000

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	DAFAYEV, A.I., BALATS, M.YB., KAFTAHOV, V.S., LAHDEDETE, L. G., LYURIMOV, V.A., OBUKHOV, Yu. V.	E	
	"Search for "->.?c Decay"		
	report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962		
	Inst. of Theoretical and Experimental Physics, Moscow, UESR		
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	ALIKHAHOV, A.I., PABYEV, A.I., PALATS, M. Ya., KAFTAHOV, V.S., LANNYHERG, L.G., LYUBINDV, V.A., OBURNOV, Yu. V.	(<u>(</u>)		
	"Search for /->cillecayo"			
	report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962			
4	Institute of Theoretical and Experimental Physics, Moscow, USSR			
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S/056/62/042/006/046/047 B104/B112

AUTHORS:

Babayev, A. I., Balats, M. Ya., Kaftanov, V. S., Landsberg,

L. G., Lyubimov, V. A., Obukhov, Yu. V.

TITLE:

Search for the $\mu^+ \longrightarrow e^+ + e^+ + e^-$ decay

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42,

no. 6, 1962, 1685-1687

TEXT: An attempt to find the $\mu \longrightarrow 3e$ decay was made with the apparatus shown in Fig. 1. The current of 70-Nev π^+ mesons was separated by coincidences in counters I, II, and 0. The number of π^+ mesons stopped in counter 0 was determined from the number of $\mu^+ \longrightarrow e^+ + \vee + \vee$ decays recorded by counters 0 and III (1, 2, $\bar{3}$ + 4, 5, $\bar{6}$ + 7, 8, 9 + 10, 11, $\bar{12}$). Fast coincidences of any pair of lateral counters with a central counter generate a control signal which is amplified and fed to the high-voltage electrodes of two spark chambers. The particle tracks in the chambers are photographed and the interval between the stoppage of a π^+ meson and the generation of the control signal is measured simultaneously. The amplitude of the pulses generated in counter 0 by decay π^+ mesons and decay

Card 1/8

Search for the $\mu^+ \longrightarrow e^+ + e^+ + e^-$ decay

s/056/62/042/006/046/047 B104/B112

electrons is recorded by an oscilloscope. After 70 hrs of operation it was not possible to find a $\mu \longrightarrow 3e$ decay among 6.98.108 stops. There are 2 figures.

ASSOCIATION:

Institut teoreticheskoy i eksperimental'noy fiziki

(Institute of Theoretical and Experimental Physics)

SUBMITTED:

April 9, 1962

Fig. 1. Experimental apparatus.

Legend: ((II) and (II) spark chambers; (K-1) and (K-2) motion-picture cameras

(3) mirror for stereoscopic pictures.

Card 2/5

S/056/62/043/005/058/058 B125/B104

AUTHORS:

Babayev, A. I., Balats, M. Ya., Kaftanov, V. S.,

Landsberg, L. G., Lyubimov, V. A., Obukhov, Yu. V.

TITLE:

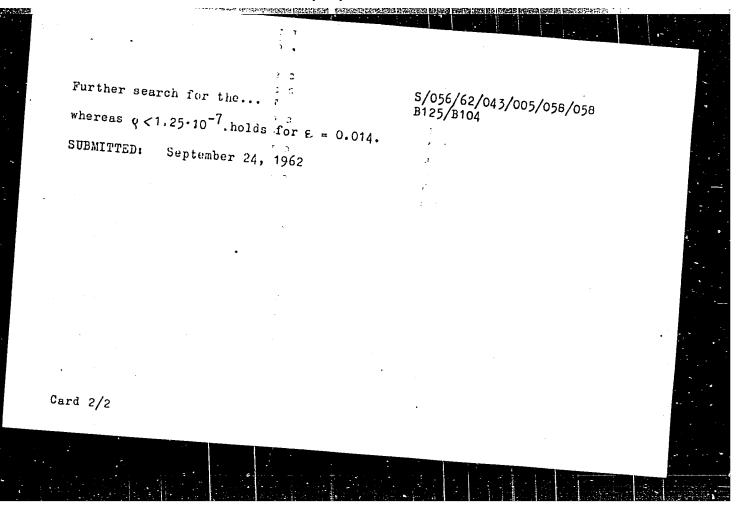
Further search for the \mu^+ -> e^+ + e^+ + e^- decay

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,

no. 5(11), 1962, 1984

TEXT: The present study reports new results on the $\mu\to 3e$ decay, obtained with the aid of the experimental arrangement used by A. I. Babayev (Preprint ITEF, 1962; ZhETF, 42, 1685, 1962). 1.38·109 muon stops were recorded on the target. Through 150 hours not a single stopping process was found that had satisfied the kinematic and other criterions indicated in the above-mentioned previous work. Additional calibrating measurements and electronic computations gave the value $\varepsilon=0.012$ for the total efficiency of the recording of $\mu\to 3e$ decays when the matrix element of the process $\mu\to 3e$ was assumed to be constant, and the value $\varepsilon=0.014$ when the matrix element had the form $|M|^2={\rm const}\ \epsilon_3(1-\epsilon_3)$. For $\varepsilon=0.012$ the

upper limit Q of the number of $\mu \rightarrow 3e$ decays is found to be $Q < 1.45 \cdot 10^{-7}$, Card 1/2



1. 6778-65 EWI(m)/I/EWA(ii) IJP(c)/AFMDC/ASD(a)-5 5/0120/64/000/004/0087/0089 ACCESSION NR: AP4044072 AUTHOR: Bayatyan, G. L.: Zel'dovich, O. Ya.; Landsberg, L. G. TITLE: Gas threshold Cerenkov counter functioning in a wide angular range SOURCE: Pribory i tekhilka eksperimenta, no. 4, 1964, 87-89 TOPIG TAGS: Cerenkov counter, gas counter, threshold counter, particle counter ABSTRACT: A new particle counter is described which is intended for studying N-p scatter in the experimental separation of N-mesons from protons within 1-4 Gey/s; the counter produces anticoincidence signals when W-mesons, scattered by a target within 15-200 pass through it. The design features of the counter are illustrated in Exclosure 1. The freon-13 filled counter was tested with a fi-meson beam taken from an ITEF 7-Gev accelerator. By a proper selection of pressure, the inefficiency of the counter could be reduced to 0.9% for Card 1/4

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counter conne plateau, 99.4 N. G. Petrov	cted for coincide %. "The authors and M. N. Poru	0.3% for 3 Gev/s. The ace with scintillation cou wish to thank A. 1. Alik hay for their part in design the work." Orig. art.	nters is, within the hanov for his attention, gning the counter, and al	
ASSOCIATION	: Institut tsoret	i heskoy i eksperimental		te .
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L 14439-66 EWT(n)/T IJP(c) ACC NR: AT6002501 SOURCE CODE: UR/3138/65/000/372/0001/0008 AUTHOR: Galaktionov, Yu. V.; Landaberg, L. G.; Lyubinov, V. A. ORG: none 19154 TITLE: Efficiency of scintillation counters in registration of neutrons with a SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 372, 1965. Issledovaniye effektivnosti registratsii neytronov s impul'som neskol'ko Bev/c stsintillyatsionnymi schetchikami, 1-8 TOPIC TAGS: scintillation counter, neutron detector, pion scattering, neutron ABSTRACT: The authors studied the efficiency of scintillation counters for registration of neutrons. The neutrons were produced by pion-neutron scattering at angles of 120-180° from a target of heavy or ordinary water located within a cylindrical spark chamber. The counter signal produced by forward scattered neutrons was Card 1/2

L 14439-66

ACC NR: AT6002501

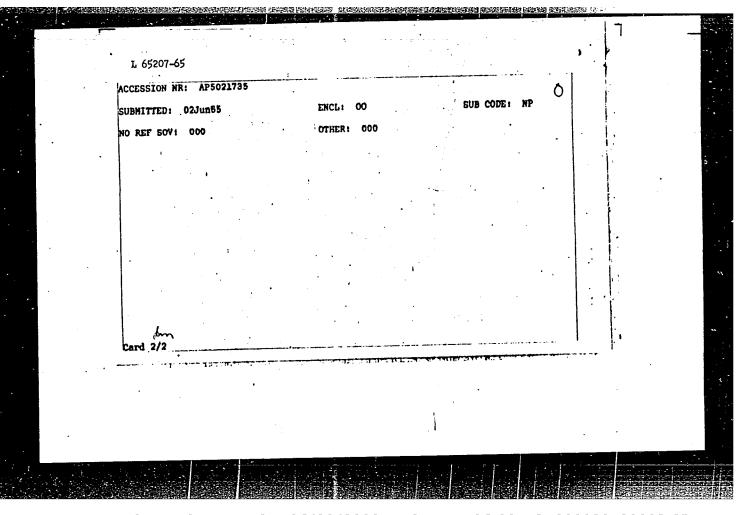
recorded on an oscillograph while the chamber was simultaneously photographed. The efficiency of neutron registration was determined by using the photographs to sort out backward scattering events. Two types of scintillation counters were studied. In the first type, a block of scintillating plastic was used for registration of neutrons. The scintillator had a thickness of 280 mm on the path of the neutron. Neutrons were recorded at angles of *12° from the axis of the counter. The efficiency of this type of counter was found to be 0.58*0.07 for a neutron momentum of 2.1 bev using data for a heavy water target. The second type of neutron recorder was made up of three thin (15 nm) scintillation counters with iron plates 6 cm thick in front of each of them. A separate photomultiplier was used for scanning each scintillation counter. This type of counter has an efficiency of 0.51 * 0.06 for a neutron momentum of 3.0 bev/c. The authors are grateful to G. A. Bayatyan, 0. Ya. Zel'dovich and N. N. Luzhetskiy for assistance with the measurements. We are also grateful to M. Ya. Balats for discussing a number of ideas in setting up the experiment. Orig. art. has: 1 figure, 3 tables.

SUB CODE: 18/ SUBM DATE: 21Jul65/ ORIG REF: 001/ OTH REF: 000

Card 2/2

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•	L 65207-65 EWT (m)/T/EWA(m)=2	•			· ·		
	ACCESSION NR: AP50	21735		65/002/002/009 W/15	0/0094			
	AUTHOR: Alikhanov,	A. I.: Bayatyan, G.		Galaktionov	Yu. Y.;	_		
	-Yeliseyev, G. P.; Ye	ch, F. A.; Zel'dovi	ch. O. Ya.; Landabe	re. L. G.; Lyu	bimov, V.	l·	•	
	A.; Sidorov, I. V.	- VV 77 170	, OC.		49	i i		
	TITLE: Elastic back	ward ecattering of	F. 4%.C	s in the 1.4-4	.0 Bey/s B			
	pulse range	ward acartering or	nesona by nears on	 				
	SOURCE: Zhurnal ek	sperimental'noy i te	oreticheskoy fiziki	. Pis'ma v red	aktsiyu.			
	Prilozheniye, v. 2,	no. 2, 1965, 90-94						
	TOPIC TAGS: pi mes		neutnon coattenin	•		3'		
	TOPIC INGS: PI mess	on, particle scatter	, Hearton scarrerin					
	ABSTRACT: The elas	tic backward scatter	ing reaction # + n+#	-+n is studied	in the			
	1.38-4.05 Bev/s pul	se range. 1700 even	ts of this reaction	were selected	with a pion	(i'		
					ad (assument)			
	scattering angle of	>900. The solid an	gles for these even	TUBBER BYSN BJ	ed (accuracy	1.		
•	of measurement in t	ha horizontal plane	was 1° and in the V	ertical plane-	-5°). The	1 :		
•	scattering angle of of measurement in the results are given in	ha horizontal plane	was 1° and in the V	ertical plane-	-5°). The	1 :		
	of measurement in t	ha horizontal plane	was 1° and in the V	ertical plane-	-5°). The	1 :		
	of measurement in the results are given in	ha horizontal plane	was 1° and in the V	ertical plane-	-5°). The	1 :		
	of measurement in the results are given in the ASSOCIATION: none	ha horizontal plane	was 1° and in the V	ertical plane-	-5°). The	1 :		
	of measurement in the results are given in	ha horizontal plane	was 1° and in the V	ertical plane-	-5°). The	1 :		
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	of measurement in the results are given in the ASSOCIATION: none	ha horizontal plane	was 1° and in the V	ertical plane-	-5°). The	1 :		
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L 30993-66 EVT(m)/T

ACC NR: AT6002498

SOURCE CODE: UR/3138/65/000/350/001/0012

AUTHOR: Alikhanov, A. I.; Bayatyan, G. L.; Brakhman, E. V.; Eliseev, G. P.; Galaktionov, Yu. V.; Landsberg, L. G.; Lyubimov, V. A.; Sidorov, L. V.; Zeldovich, O. Ya.; Yetch, F. A.

ORG: none

48

TITLE: # - meson-neutron elastic backward scattering at 1.4-4.0 bev/c

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 350, 1965. Pi sup minus-meson-neutron elastic backward scattering at 1.4-4.0 Bev/c, 1-12

TOPIC TAGS: pion scattering, neutron scattering, elastic scattering, scattering cross section, angular distribution, spark chamber

ABSTRACT: The authors study the clastic backward scattering reaction

in the 1.38-4.05 bev/c range. A spark chamber was used with photographic and neutron counter registration. The experimental installation was highly efficient in

Card 1/2

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recording γ -quantum from π^0 -decays, and the admixture of inelastic events $\pi^- + n + \pi^- + n + K\pi^{0^+-}$ in the 1700 cases of the elastic backward scattering reactions which were selected for study was no more than 2%. The solid angles for these cases were measured and the absolute cross sections were determined. Tables are given showing the cross section $\bar{\sigma}_1 = \bar{\sigma}_{D^20} - \bar{\sigma}_{H_20}$ and $R = \bar{\sigma}_{H_20}/\bar{\sigma}_{D_20}$ as functions of energy. The total error

in calculation of these cross sections due to necessary corrections for pion-pion and pion-neutron scattering in the ambient medium, electronic efficiency, beam composition and the shielding effect of nucleons in the deuterium was 25%. Data for and $<\sigma_n>$ as functions of energy show some irregularity in the 2-3 bev region which may be due to resonance. Measurements of angular distribution for pion-neutron scattering show a minimum in the 162-180° region. The momentum transfer function is used as a basis for calculating the width of this minimum. A comparison of the experimental data obtained in this paper with those in the literature shows that the cross section $d\sigma/d\Omega$ is approximately inversely proportional to energy when the momentum transfer is constant. Orig. art. has: 4 figures, 2 tables.

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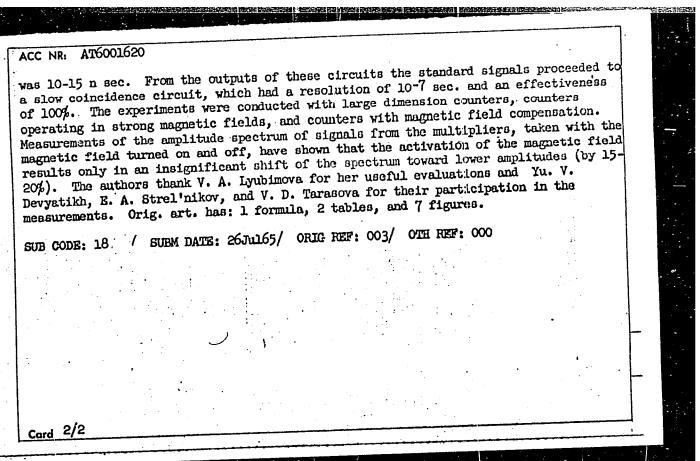
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Card 2/2 2

45992-66 EWT(1)/EWT(m)/TIJP(c) WW ACC NR: AP6030128 SOURCE CODE: UR/0120/66/000/004/0056/0059 AUTHOR: Bayatyan, G. L.; Galaktionov, Yu. V.; Zel'dovich, O. Ya.; Landsberg, L. G. ORG: [Bayatyan] Institute of Physics GKAE, Yerevan (Institut fiziki GKAE); Institute of Theoretical and Experimental Physics GKAE, Moscow (Institut teoreticheskoy i eksperimental noy fiziki GKAE) TITLE: Large scintillation counters and counters intended for operation in magnetic fields SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 56-59 TOPIC TAGS: scintillation counter, particle counter ABSTRACT: The results are reported of testing (a) large (up to $700 \times 350 \times 15 \text{ mm}$) scintillation counters with one photomultiplier and (b) long-lightguide counters capable of operating in strong magnetic fields. The large counters with 190--250-mm lightpipes were illuminated by a gamma beam from Cs137; the irregularity of light collection was found to be 40% or less. The effect of the scintillation-crystal shape on the efficiency of particle recording was also explored. In the second type of counters, the ambient magnetic field was eliminated by either a compensating magnetic field derived from a special solenoid or by using lightguides long enough (1500--1800 mm) for locating the photomultiplier in a (50--100-oe) region permitting Card 1/2 UDC: 539.1.074.3

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ACC NRI AT6001620 SOURCE CODE: UR/3138/65/000/373/0001/0016 AUTHOR: Bayatyan, G. L.; Galaktionov, Yu. V.; Zel'dovich, O. Ya.; Landsberg, L. G. ORG: Bayatyan Institute of Physics GKIAE, Yerevan (Institut fiziki GKIAE, Yerevan) TITLE: Large scintillation counters and counters for operation in magnetic fields SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 373, 1965. Bol'shiye stsintillyatsionnyye schetchiki i schetchiki dlya raboty v magnitnykh polyakh, 1-16 TOPIC TAGS: scintillation counter, photomultiplier, magnetic field, light wave ABSTRACT: Large scintillating counters and long light guides are essential for workin the area of strong magnetic fields. The authors have tested a variety of such counters in their experiments. The counters differed in shape and size of the crystals and length of light guides. In the case of each counter the authors determined the dependence of its effectiveness on the voltage of the photomultiplier and, in some cases, on the area of passage of particles through the scintillator. Measurements were conducted by studying cosmic rays and. a beam generated by the ITEF accelerator under high load conditions. The signals from the counters entered the high-speed coincidence circuits. The resolution period of the circuits Card 1/2



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Treatment of rheumatism with steroid harmones and ascorbic acid. Polski tygod. lek, 5:13, 27 Mar. 50. p. 490-1

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VIL'DT, Ye.O.; LANDSERRO, R.S.: KHROMOY, A.V.

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